

METHOD AND APPARATUS FOR MEMORY ALLOCATION

Abstract

In a first aspect, a first method is provided for allocating memory bandwidth. The first method includes the steps of (1) assigning a fixed priority of access to the memory bandwidth to one or more direct memory access (DMA) machines; and (2) assigning a programmable priority of access to the memory bandwidth to a processing unit. The programmable priority of the processing unit allows priority allocation between the one or more DMA machines and the processing unit to be adjusted dynamically. Numerous other aspects are provided.